

**Consolidated Police and Firemen's Pension Fund of New Jersey** 

Actuarial Valuation Report as of July 1, 2024

**Produced by Cheiron** 

February 2025

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## Letter of Transmittal

February 5, 2025

Board of Trustees Consolidated Police and Firemen's Pension Fund of New Jersey State of New Jersey Department of the Treasury Division of Pension and Benefits, CN 295 Trenton, New Jersey 08625-0295

Dear Board Members:

At your request, we have performed the July 1, 2024 Actuarial Valuation of the Consolidated Police and Firemen's Pension Fund of New Jersey (CPFPF or Fund).

In preparing our report, we relied on information (some oral and some written) supplied by the Division of Pensions and Benefits. This information includes, but is not limited to, plan provisions, employee data, and financial information. We performed an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23, Data Quality.

The results of this report are only applicable to the Fund's contribution for Fiscal Year Ending 2026. Future results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the assumptions; changes in assumptions; and changes in plan provisions or applicable law.

The actuarial assumptions are based on the 2022 Experience Study dated November 9, 2022, and approved by the Division of Pensions and Benefits (DPB). The assumptions reflect our understanding of the likely future experience of the Fund and each of the assumptions represents the best estimate of future experience.

This report has been prepared in accordance with generally recognized and accepted actuarial principles and practices and our understanding of the Code of Professional Conduct and applicable Actuarial Standards of Practice set out by the Actuarial Standards Board as well as applicable laws and regulations. Furthermore, as credentialed actuaries we meet the Qualification Standards, as defined by the American Academy of Actuaries, to render the opinion contained in this report. This report does not address any contractual or legal issues. We are not attorneys, and our firm does not provide any legal services or advice.

Consolidated Police and Firemen's Pension Fund of New Jersey February 5, 2025 Page 2

This actuarial valuation report was prepared exclusively for the Consolidated Police and Firemen's Pension Fund of New Jersey for the purposes described herein and for the plan auditor in completing an audit related to the matters herein. Other users of this report are not intended users as defined in the Actuarial Standards of Practice, and Cheiron assumes no duty or liability to such other users.

Sincerely, Cheiron

Janet Cranna, FSA, FCA, MAAA, EA Principal Consulting Actuary

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Jonathan B. Chipko, FSA, MAAA, EA Consulting Actuary

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#### **SECTION I – BOARD SUMMARY**

The primary purpose of the actuarial valuation and this report is to disclose the following as of the valuation date:

- The financial condition of the Consolidated Police and Firemen's Pension Fund of New Jersey,
- Past trends and risks to the Fund's financial condition, and
- The State's Pension Contribution for Fiscal Year Ending (FYE) 2026.

In this Section we present a summary of the principal valuation results. This includes the basis upon which the July 1, 2024 valuation was completed and an examination of the current financial condition of the Fund. In addition, we present a review of the key historical trends.

This report does not include information required under GASB Statement No. 67 which was provided in a separate report.

Results shown in this report for years prior to July 1, 2018 are based on the prior actuary's valuation reports.

# Valuation Basis

The July 1, 2024 valuation results are based on the same actuarial methods and assumptions as used in the July 1, 2023 valuation. The assumptions are based on the 2022 Experience Study dated November 9, 2022 and approved by the Division of Pensions and Benefits. The assumptions reflect our understanding of the likely future experience of the Fund and each of the assumptions represents the best estimate of future experience.

The Fund continues to receive contributions from Local employers. Our understanding is that these are Pension Adjustment contributions intended to fund the cost-of-living adjustments. The Statutory Contribution calculated in this report does not consider any future Pension Adjustment contributions. Therefore, any ongoing contributions required to fund the cost-of-living adjustments are included with the Statutory Contribution.

This report was prepared using census data and financial information as of the valuation date, July 1, 2024. Events following that date are not reflected in this report.

The valuation reflects a plan closed to new entrants since 1944 and at this time only covers beneficiaries. All risks and assumptions are a reflection of the nature of a wasting trust to meet the obligation to these remaining beneficiaries.



#### **SECTION I – BOARD SUMMARY**

# **Key Results**

Table I-1 below summarizes the key results of the valuation with respect to the Fund's membership, assets and liabilities, and contributions. The results are presented and compared for both the current and prior year.

Table I-1Summary of Key Valuation Results							
Valuation Date Fiscal Year Ending (FYE)	Jı	uly 1, 2024 2026	J	uly 1, 2023 2025	% Change		
Member Data Actives Deferred Vested Members Retirees and Beneficiaries Total Members		0 0 <u>18</u> 18		0 0 <u>19</u> 19	N/A N/A (5.3%) (5.3%)		
Annual Retirement Allowances	\$	281,433	\$	300,480	(6.3%)		
Assets and Liabilities Actuarial Liability Actuarial Value of Assets (AVA) <sup>1</sup> Unfunded Actuarial Liability/(Surplus) Funded Ratio	\$ \$	1,436,591 2,134,405 (697,814) 148.6%	\$ \$	1,563,812 2,172,278 (608,466) 138.9%	(8.1%) (1.7%) 14.7% 9.7%		
<b>Contribution Amounts</b> Total Statutory Contribution for FYE	\$	0	\$	0	N/A		

Actuarial Value of Assets is equal to Market Value of Assets.

The key results of the July 1, 2024 actuarial valuation are as follows:

- There is no contribution due for the Fiscal Year Ending 2026.
- The funded ratio, the ratio of the actuarial value of assets over liabilities, increased from 138.9% as of July 1, 2023 to 148.6% as of July 1, 2024.
- The surplus increased from \$608 thousand as of July 1, 2023 to \$698 thousand as of July 1, 2024.
- There was a total actuarial experience loss of \$73 thousand, consisting of a liability loss of \$114 thousand and an asset gain of \$41 thousand.



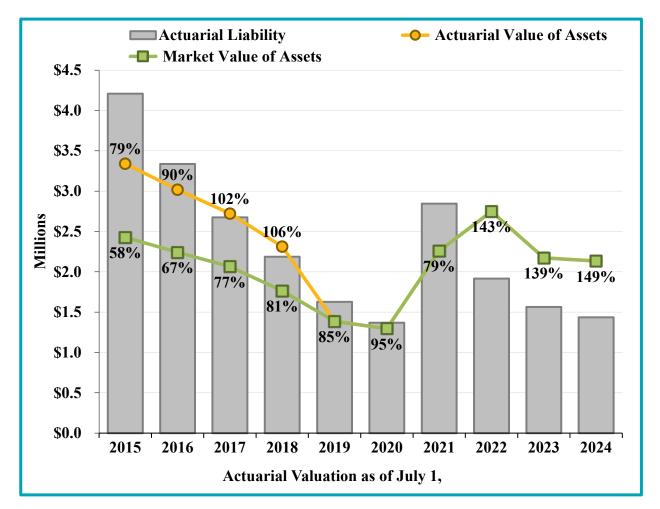
## **SECTION I – BOARD SUMMARY**

# **Recent Trends**

It is important to take a step back from these latest results and view them in the context of the Fund's recent history. Below, we present a series of graphs which display key factors in the valuations of the last ten years. Additionally, in Appendix D we provide the numerical values of the historical unfunded actuarial liability, funded ratio, and contribution amounts.

## Assets and Liabilities

In the following graph, the gray bars represent the Actuarial Liability (AL). The green line is the Market Value of Assets (MVA) and the gold line is the Actuarial Value of Assets (AVA). The Fund's funded ratio (ratio of assets to liabilities) is shown next to the lines. Effective with the July 1, 2019 valuation, the AVA was set equal to the MVA. The assets and liabilities have been decreasing every year except for 2021. This is to be expected because the Fund only has beneficiaries. The increase in both assets and liabilities in 2021 is due to the method change of reflecting the assets and liabilities associated with the cost-of-living adjustments in the valuation.



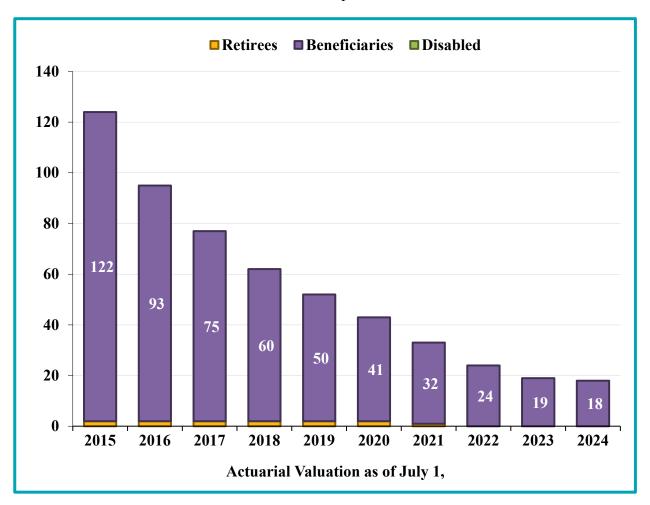
The information above is based on the final actuarial valuation reports for the given years. The amounts do not reflect differences between the discounted State appropriations receivable and the actual State contribution amounts that became known after the issuance of the reports.



#### **SECTION I – BOARD SUMMARY**

#### Membership Trends

The graph below shows the membership counts of the Fund for the last ten valuations. The numbers that are shown in the middle of the bars represent the number of beneficiaries.



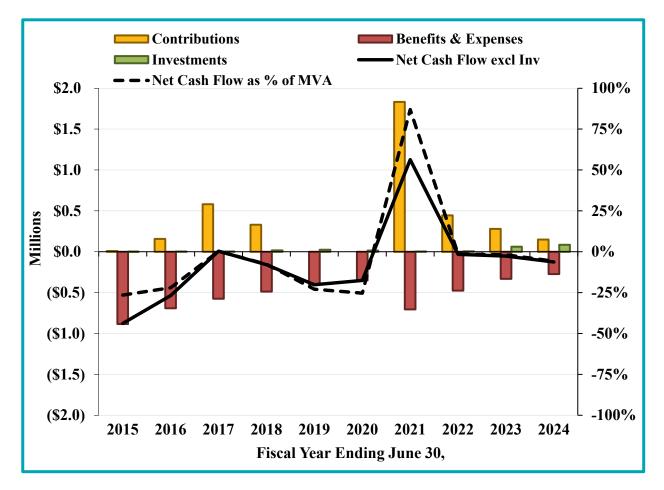


#### **SECTION I – BOARD SUMMARY**

#### Cash Flows

The following graph shows the Fund net cash flow (contributions less benefit payments and expenses) at the end of each valuation year. The net cash flow excluding investments has been negative every year except for 2021. This is an expected result of a wasting trust dedicated to paying out benefits to the remaining annuitants. The black dotted line shows the net cash flow as a percent of the market value of assets and corresponds with the right-hand axis. An implication of negative cash flow is that the difference each year must be paid out of the principal assets, meaning there will be less to invest during periods of favorable investment experience. Given the Fund's conservative asset allocation, this is not the typical risk.

As expected, the benefits and expenses have decreased during this period as the membership declines. The fluctuation in the net cash flow is a result of the varying contributions. The Fund is currently in a surplus position, but the unfunded actuarial liability in recent years has been amortized over one year which results in cost volatility. In FYE 2021, the Pension Adjustment Fund was transferred into CPFPF, and cost-of-living adjustments were paid directly out of CPFPF instead of through annual contributions from the Pension Adjustment Fund. This transfer resulted in a large positive net cash flow for FYE 2021.





#### SECTION II – IDENTIFICATION AND ASSESSMENT OF RISK

Actuarial valuations are based on a set of assumptions about future economic and demographic experience. These assumptions represent a reasonable estimate of future experience, but actual future experience will undoubtedly be different and may be significantly different. This section of the report is intended to identify the primary risks (if any) to the plan, provide some background information about those risks, and provide an assessment of those risks.

# **Identification of Risks**

The fundamental risk to a pension fund is that the contributions needed to pay the benefits become unaffordable. Due to the size of the Fund relative to the State, we do not believe there is a material risk that the benefits will become unaffordable.

# Low-Default-Risk Obligation Measure (LDROM)

Pension plans typically invest in a diversified portfolio to achieve the best possible return at an acceptable level of risk. The lowest investment risk portfolio for a pension plan would be composed entirely of low-default-risk fixed income securities whose cash flows match the cash flow needs of the plan. Such a portfolio would have a lower expected rate of return than the diversified portfolio. Low-Default-Risk Obligation Measure (LDROM) represents what the Actuarial Liability would be if the Fund's assets were invested in such a portfolio.

The Fund currently invests in a low-risk portfolio to preserve its surplus position and achieve benefit security for the remaining beneficiaries in the Fund. With this conservative asset allocation, the Low-Default-Risk Obligation Measure (LDROM) as of July 1, 2024 is best represented by the Actuarial Liability of \$1,436,591.



## **SECTION III – ASSETS**

The Fund uses the market value of assets for funding. The market value represents the value of the assets if they were liquidated on the valuation date.

On the following pages, we present detailed information on the Fund's assets:

- Disclosure of assets at June 30, 2023 and June 30, 2024,
- Statement of cash flows during the year, and
- Disclosure of investment performance for the year.

## Disclosure

The market value of assets represents a "snap-shot" value as of the last day of the fiscal year that provides the principal basis for measuring financial performance from one year to the next. Table III-1 on the following page presents the market value as of June 30, 2023 and June 30, 2024. Table III-2 presents the Fund's net cash flows from June 30, 2023 to June 30, 2024. Table III-3 shows the historical asset returns for the Fund for the past ten years.

Table III-1 Statement of Assets at Market Value								
June 30, 2024 June 30, 2023								
Assets								
Cash	\$	545,503	\$	412,746				
Cash Management Fund		1,491,988		1,655,833				
Accrued Interest on Investments		29		44				
Administrative Expenses Receivable		8,083		7,406				
Employers' Contributions Receivable -								
Pension Adjustment and Local		132,731		140,102				
Other Accounts Receivable		1,371		1,371				
Total Assets	\$	2,179,705	\$	2,217,502				
Liabilities								
Pension Payroll Payable	\$	(15,339)	\$	(15,493)				
Pension Adjustment Payroll Payable		(25,558)		(26,133)				
Withholdings Payable		(256)		(517)				
Adminstrative Expense Payable		(4,147)		(3,081)				
Other Accounts Payable		0		0				
Total Liabilities	\$	(45,300)	\$	(45,224)				
Preliminary Market Value of Assets	\$	2,134,405	\$	2,172,278				
Discounted State Appropriations Receivable		0		0				
Market Value of Assets	\$	2,134,405	\$	2,172,278				

For this Fund, the actuarial value of assets is equal to the market value of assets.



## **SECTION III – ASSETS**

# Fund Cash Flows from June 30, 2023 to June 30, 2024

Table III-2 Changes in Market Values for FYE June 30, 2024						
Additions						
Contributions						
State Appropriations	\$	0				
Employer Contribution - Local		148,479				
Administrative Revenue - Local		2,819				
Net Investment Income		84,015				
Total Additions	\$	235,313				
Deductions						
Retirement Allowances	\$	99,247				
Benefit Expense - Pension Adjustment		170,067				
Miscelleanous Expense		0				
Administrative Expense		3,872				
Total Deductions	\$	273,186				
Net Increase/(Decrease)	\$	(37,873)				
Preliminary Market Value of Assets Beginning of Year	\$	2,172,278				
Preliminary Market Value of Assets End of Year	\$	2,134,405				
Discounted State Appropriations Receivable		0				
Market Value of Assets End of Year	\$	2,134,405				
Approximate Return		3.98%				

# **Actuarial Value of Assets**

For this Fund, the actuarial value of assets equals the market value of assets.



## **SECTION III – ASSETS**

# **Investment Performance**

The market value of assets rate of return was 3.98% for the year ending June 30, 2024. This is compared to an assumed return of 2.00% for the same period. Table III-3 shows the historical asset returns and the investment return assumption for the last ten years.

The prior actuary did not calculate a market value return prior to 2017.

Table III-3       Annual Rates of Return						
Year Ended June 30	Investment Return Assumption	Market Value	Actuarial Value			
2015	2.00%		(3.81%)			
2016	2.00%		(4.36%)			
2017	2.00%	0.34%	(4.35%)			
2018	2.00%	0.97%	(3.64%)			
2019	2.00%	1.57%	1.57%			
2020	2.00%	1.16%	N/A			
2021	2.00%	0.16%	N/A			
2022	2.00%	0.19%	N/A			
2023	2.00%	2.91%	N/A			
2024	2.00%	3.98%	N/A			
-Year Compound	Average	1.67%	N/A			



## **SECTION IV – LIABILITIES**

In this section, we present detailed information on the liabilities of the Fund, including:

- Disclosure of the liabilities at July 1, 2023 and July 1, 2024, and
- The development of the actuarial gain and loss.

## Disclosure

The actuarial liability is used for determining employer contributions. For CPFPF, the funding method employed is the Projected Unit Credit (PUC) Actuarial Cost Method. Under this funding method, the actuarial liability is calculated as the actuarial present value of the projected benefits allocated to periods prior to the valuation year.

This liability is determined for funding purposes and is not appropriate for measuring the cost of settling plan liabilities by purchasing annuities or paying lump sums.

Table IV-1 shows the actuarial liability, funded ratio, and unfunded actuarial liability as of July 1, 2024, and July 1, 2023 for the Fund.

Table IV-1       Actuarial Liabilities							
July 1, 2024 July 1, 2023							
Actuarial Liability							
Actives	\$	0	\$	0			
Deferred Vested		0		0			
Retirees	Retirees 0 0						
Disabled		0		0			
Beneficiaries		1,436,591		1,563,812			
Total Actuarial Liability	\$	1,436,591	\$	1,563,812			
Actuarial Value of Assets	\$	2,134,405	\$	2,172,278			
Unfunded Actuarial Liability/(Surplus)	\$	(697,814)	\$	(608,466)			
Funded Ratio		148.6%		138.9%			



#### **SECTION IV – LIABILITIES**

Table IV-2 presents the change in the actuarial liability, actuarial assets, and unfunded actuarial liability during the plan year. In general, the unfunded actuarial liability (UAL) of any retirement system is expected to change at each subsequent valuation for a variety of reasons. In each valuation, we report on those elements of change in the UAL which are of particular significance, potentially affecting the long-term financial outlook of the Fund.

Table IV-2Development of 2024 Experience (Gain)/Loss							
		Actuarial Actuarial Value Liability of Assets			Unfunded Actuarial Liability		
1. Value as of July 1, 2023	\$	1,563,812	\$	(2,172,278)	\$	(608,466)	
2. Additions Normal Cost Employer Contributions Expected Member Contributions	\$	0 0 0	\$	0 0 0	\$	0 0 0	
Total Additions	\$	0	\$	0	\$	0	
3. Deductions Benefit Payments Expected Administrative Expenses	\$	(269,314)		269,314 0	\$	0 0	
Total Deductions	\$	(269,314)	\$	269,314	\$	0	
4. Expected Interest	\$	28,596	\$	(40,766)	\$	(12,170)	
5. Expected Value as of July 1, 2024: [1 + 2 + 3 + 4]	\$	1,323,094	\$	(1,943,730)	\$	(620,636)	
6. Other Changes							
Appropriation Adjustment <sup>1</sup>	\$	0	\$	(149,956)	\$	(149,956)	
Contribution Timing		0		0		0	
Actual Member Contributions Change in Methods/Assumptions		0 0		0 0		0 0	
Change in Benefits		0		0		0	
Total Other Changes	\$	0	\$	(149,956)	\$	(149,956)	
7. Expected Value after Changes: [5 + 6]	\$	1,323,094	\$	(2,093,686)	\$	(770,592)	
8. Actual Value as of July 1, 2024	\$	1,436,591	\$	(2,134,405)	\$	(697,814)	
9. Actuarial (Gain)/Loss: [8 - 7]	\$	113,497	\$	(40,719)	\$	72,778	

<sup>1</sup> Includes impact of Employer Contribution - Local



## **SECTION IV – LIABILITIES**

Table IV-3 shows the components of the actuarial (gain)/loss for the Fund as of July 1, 2024 and July 1, 2023.

Table IV-3 Actuarial (Gain)/Loss Analysis						
Components	Ju	ly 1, 2024	Ju	ly 1, 2023		
Actuarial Value of Assets Investment Return Administrative Expenses Total	\$ \$	(41,782) <u>1,063</u> (40,719)	\$ \$	(19,676) (411) (20,087)		
Actuarial Liability Inactive Demographic Experience Actuarial (Gain)/Loss	\$ \$	113,497 <b>72,778</b>	\$ \$	(59,118) <b>(79,205)</b>		



#### **SECTION V – CONTRIBUTIONS**

In the process of evaluating the financial condition of any pension plan, the actuary analyzes the assets and liabilities to determine what level (if any) of contributions is needed to properly maintain the funded status of the Plan. Typically, the actuarial process will use a funding technique that will result in a pattern of contributions that are both stable and predictable.

Under the current funding policy, the State funding requirement contains two components: the employer normal cost and an amortization of the unfunded actuarial liability. Since CPFPF does not have any active members, there is no normal cost component. The funding methodology prescribed by NJ State Statute does not include a cost component for administrative expenses, and therefore administrative expenses are implicitly covered by the investment rate of return assumption.

For CPFPF, the funding method employed is the Projected Unit Credit (PUC) Actuarial Cost Method. Under this funding method, the actuarial liability is calculated as the actuarial present value of the projected benefits allocated to periods prior to the valuation year. The unfunded actuarial liability is the actuarial liability on the valuation date less the actuarial value of assets.

The unfunded actuarial liability as of June 30, 1990 was amortized over a closed period of nine years. We have assumed that any future unfunded actuarial liability will be amortized over one year as all members are inactive and receiving benefits.

Table V-1 shows the development of the Statutory Pension Contribution for the current and prior year.

Table V-1           Development of Statutory Pension Contribution								
Valuation DateJuly 1, 2024July 1, 2023Fiscal Year Ending20262025								
<ol> <li>Actuarial Liability</li> <li>Actuarial Value of Assets</li> </ol>	\$	1,436,591 2,134,405	\$	1,563,812 2,172,278				
<ol> <li>Unfunded Actuarial Liability: [1 - 2]</li> <li>Amortization Period (years)</li> <li>Total Statutory Pension Contribution as</li> </ol>	\$	(697,814) 1	\$	(608,466) 1				
of Beginning of Fiscal Year: [3 x 1.02]	\$	0	\$	0				

The Statutory Pension Contribution in Table V-1 above is a reasonable actuarially determined contribution in accordance with Actuarial Standard of Practice (ASOP) No. 4.



## **APPENDIX A – MEMBERSHIP INFORMATION**

The data for this valuation was provided by the New Jersey Division of Pensions and Benefits as of July 1, 2024. Cheiron did not audit any of the data. However, we did perform an informal examination of the obvious characteristics of the data for reasonableness and consistency in accordance with Actuarial Standard of Practice No. 23, Data Quality. The following is a list of data charts contained in this section:

- A-1 and A-2: Inactive Member Data by Age
- A-3: Reconciliation of Plan Membership

Table A-1         Counts by Age of Inactive Members							
	Status						
Attained Age	Beneficiary	Total					
Under 45	0	0					
45-49	0	0					
50-54	0	0					
55-59	0	0					
60-64	0	0					
65-69	1	1					
70-74	0	0					
75-79	3	3					
80-84	2	2					
85 & Over	12	12					
Total	18	18					

Table A-2           Annual Retirement Allowances by Age of Inactive Members							
	\$	Status					
Attained Age	Be	neficiary	To	tal			
Under 45	\$	0	\$	0			
45-49		0		0			
50-54		0		0			
55-59		0		0			
60-64		0		0			
65-69		7,678		7,678			
70-74		0		0			
75-79		26,558		26,558			
80-84		20,511		20,511			
85 & Over		226,686		226,686			
Total	\$	281,433	\$	281,433			



Table A-3Reconciliation of Plan Membership from July 1, 2023 to July 1, 2024							
	Retired	Beneficiaries	Total				
1. July 1, 2023	0	19	19				
<ol> <li>Reductions         <ol> <li>a. Died without beneficiary</li> </ol> </li> </ol>	0	(1)	(1)				
3. Changes in Status a. Died with beneficiary			0				
4. July 1, 2024	0	18	18				

## **APPENDIX A – MEMBERSHIP INFORMATION**



## **APPENDIX B – SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS**

# A. Actuarial Assumptions

1. Investment Rate of Return	2.00% compounded annually.
2. Administrative Expenses	No explicit assumption is made for administrative expenses for funding purposes per the funding methodology prescribed by NJ State Statute.
3. Mortality	<u>Healthy Retirees:</u> The Pub-2010 Public Safety Healthy Retiree mortality table [ <i>PubS-2010 Healthy Retiree</i> ] as published by the Society of Actuaries (SOA), unadjusted, and with future improvement from the base year of 2010 on a generational basis using the SOA's Scale MP-2021.
	<u>Beneficiaries</u> : The Pub-2010 General Healthy Retiree mortality table [ <i>PubG-2010 Healthy Retiree</i> ] as published by the SOA, unadjusted, and with future improvement from the base year of 2010 on a generational basis using the SOA's Scale MP-2021.
4. Family Composition Assumptions	No assumption was made for children.
5. Rationale for Assumptions	The assumptions are based on the 2022 Experience Study dated November 9, 2022, and approved by the Division of Pensions and Benefits.
	The combined effect of the assumptions in aggregate is expected to have no significant bias.
6. Changes in Actuarial Assumptions since Last Valuation	None.



## **APPENDIX B – SUMMARY OF ACTUARIAL ASSUMPTIONS AND METHODS**

# **B.** Actuarial Methods

The actuarial methods used for determining State contributions are described below.

## 1. Actuarial Cost Method

The actuarial cost method for funding calculations is the Projected Unit Credit Cost Method.

The actuarial liability is calculated as the actuarial present value of the projected benefits allocated to periods prior to the valuation year. The unfunded actuarial liability is the actuarial liability on the valuation date less the actuarial value of assets.

The unfunded actuarial liability as of June 30, 1990 was amortized over a closed period of nine years. Without additional guidance, we assumed that if there is an unfunded actuarial liability in the future it will be amortized over one year.

Beginning with the July 1, 2021 valuation, liabilities associated with cost-of-living adjustments are included in the valuation based on the amounts provided in the census data by the DPB. Previously, the cost-of-living adjustments were separately funded on a pay-asyou-go basis through the Pension Adjustment Fund and the associated liabilities were excluded from the valuation.

#### 2. Asset Valuation Method

The actuarial value of assets is equal to the market value of assets.

In FYE 2021, the Pension Adjustment Fund was transferred into the CPFPF and cost-ofliving adjustments are now paid directly from the CPFPF.

## **3. State Contribution Payable Dates**

Chapter 83, P.L. 2016 requires the State to make the required pension contributions on a quarterly basis in each fiscal year according to the following schedule: at least 25% by September 30, at least 50% by December 31, at least 75% by March 31, and at least 100% by June 30. As such, contributions are assumed to be made on a quarterly basis.

#### 4. Valuation Software

Cheiron utilizes ProVal, an actuarial valuation software leased from Winklevoss Technologies (WinTech) to calculate liabilities and project benefit payments. We have relied on WinTech as the developer of ProVal. We have reviewed ProVal and have used ProVal in accordance with its original intended purpose. We have not identified any material inconsistencies in ProVal assumptions or output that would affect this actuarial valuation.

## 5. Changes in Actuarial Methods since Last Valuation

None.



## **APPENDIX C – SUMMARY OF PLAN PROVISIONS**

This summary of Plan provisions provides an overview of the major provisions of the CPFPF used in the actuarial valuation. It is not intended to replace the more precise language of the NJ State Statutes, Title 43, Chapter 16, and if there is any difference between the description of the plan herein and the actual language in the NJ State Statutes, the NJ State Statutes will govern. This valuation is prepared based on the plan provisions in effect as of July 1, 2024 and does not reflect the impact of any changes in the benefits that may have been approved after the valuation date.

## 1. Eligibility of Membership

Member of a municipal police department, a municipal paid or part-paid fire department, a county police department, or a paid or part-paid fire department of a fire district located in a township who has contributed to this pension fund and who is not covered by the Police and Firemen's Retirement System, which became effective on July 1, 1944.

#### 2. Active Member

Any member who is a policeman, fireman, detective, lineman, driver of police van, fire alarm operator, or inspector of combustibles, and who is subject to call for active service as such.

#### 3. Employee Member

Any member who is not subject to active service or duty.

#### 4. Plan Year

The 12-month period beginning on July 1 and ending on June 30.

#### 5. Service Credit

Service rendered while a member as described above.

#### 6. Compensation

Base salary, not including individual salary adjustments which are granted primarily in anticipation of retirement or additional remuneration for performing temporary duties beyond the regular workday. (Effective June 30, 1996, Chapter 113, P.L. 1997 provided that the amount of compensation used for employer and member contributions and benefits under the program cannot exceed the compensation limitation of Section 401(a)(17) of the Internal Revenue Code.)

#### 7. Final Compensation

Compensation received during the last 12 months of service preceding retirement or other termination of service.



## **APPENDIX C – SUMMARY OF PLAN PROVISIONS**

## 8. Average Salary

Salary averaged over the last three years prior to retirement or other termination of service.

## 9. Contributions

Each active member contributes 7% of his salary to the pension fund.

## 10. Benefits

## a) Service Retirements

Mandatory retirement at age 65 with 25 years of service (a municipality may retain the Chief of Police until age 70). Voluntary retirement after 25 years of service for an active member and after age 60 with 25 years of experience for an employee member. Benefit is life annuity equal to 60% of final compensation, plus 1% of final compensation for years of service in excess of 25.

## b) Death Benefits

## (1) While on Duty

Immediate life annuity equal to 70% of average salary payable to the spouse. If there is no spouse, or if the spouse dies or remarries, 20% of final compensation will be payable to one surviving child, 35% to two surviving children, or 50% to three surviving children. If there is no surviving spouse or child, 25% of the member's average salary will be payable to one dependent parent or 40% to two dependent parents. The minimum spousal benefit is \$4,500 per annum.

#### (2) While not on duty after retirement

Life annuity equal to 50% of the member's average salary payable to the spouse, plus 15% to one surviving child or 25% to two or more surviving children. If there is no surviving spouse or if the surviving spouse dies or remarries, 20% of the member's average salary to one child, 35% to two surviving children, or 50% to three or more surviving children. If there is no surviving spouse or child, 25% of the member's average salary will be payable to one dependent parent or 40% to two dependent parents. The minimum spousal benefit is \$4,500 per annum.

## c) Ordinary Disability Retirement

Totally and permanently incapacitated from service for any cause other than as a direct result of a traumatic event occurring during the performance of a duty. Benefit is an immediate life annuity equal to ½ of average salary.



#### **APPENDIX C – SUMMARY OF PLAN PROVISIONS**

#### d) Accidental Disability Retirement

Totally and permanently incapacitated as a direct result of a traumatic event occurring while performing regular or assigned duties. Benefit is an immediate life annuity equal to  $\frac{2}{3}$  of average salary.

#### e) Cost-of-Living Adjustments

Cost-of-living increases are granted to retired members and their eligible survivors in accordance with the Pension Adjustment Act. The additional liability due to the pension adjustment was previously paid by the Pension Adjustment Fund, which was established pursuant to Chapter 143, P.L. 1958. Chapter 78, P.L. 2011 suspended the cost-of-living adjustments for current and future retirees and beneficiaries until reactivated as permitted by law. In FYE 2021, the Pension Adjustment Fund was transferred into the CPFPF and cost-of-living adjustments were paid directly from the CPFPF, instead of through annual contributions from the Pension Adjustment Fund.

#### 11. Changes in Plan Provisions since Last Valuation

None.



Table D-1Historical Summary of Assets and Liabilities1										
Valuation Date July 1,		Market Value of Assets		Actuarial Value of Assets		Actuarial Liability	<u>Funded</u> Market Value	<u>l Ratio</u> Actuarial Value		
2024	\$	2,134,405	\$	2,134,405	\$	1,436,591	148.57%	148.57%		
2023		2,172,278		2,172,278		1,563,812	138.91%	138.91%		
2022		2,748,796		2,748,796		1,916,246	143.45%	143.45%		
2021		2,260,738		2,260,738		2,845,637	79.45%	79.45%		
2020		1,295,217		1,295,217		1,369,932	94.55%	94.55%		
2019		1,387,550		1,387,550		1,628,242	85.22%	85.22%		
2018		1,763,463		2,313,665		2,186,581	80.65%	105.81%		
2017		2,065,094		2,721,368		2,674,728	77.21%	101.74%		
2016		2,241,861		3,017,928		3,336,743	67.19%	90.45%		
2015		2,427,950		3,340,908		4,208,241	57.70%	79.39%		

## **APPENDIX D – HISTORICAL DATA AND REQUIRED EXHIBITS**

Values prior to July 1, 2021 valuation do not include assets and liabilities associated with cost-of-living adjustments

	Table D-2Historical Summary of State Appropriations1										
Fiscal Year Ending June 30,	Actuarially Determined Contribution	Actual Pension Contributions	Contribution Deficiency (Excess)	Percentage of Contribution Covered							
2025	\$ 0	\$ 0	\$ 0	100.00%							
2024	0	148,479	(148,479)	100.00%							
2023	596,597	278,530	318,067	46.69%							
2022	76,209	444,072	(367,863)	582.70%							
2021	245,506	248,000	(2,494)	101.02%							
2020	0	0	0	100.00%							
2019	0	0	0	100.00%							
2018	325,191	325,000	191	99.94%							
2017	884,680	575,000	309,680	65.00%							
2016	491,683	148,000	343,683	30.10%							

<sup>1</sup> Pension contributions prior to Fiscal Year Ending June 30, 2022 exclude the Pension Adjustment. Contributions starting Fiscal Year Ending June 30, 2022 include Employer Contribution - Local.

The information above is based on the final actuarial valuation reports for the given years. The amounts do not reflect differences between the discounted State appropriations receivable and the actual State contribution amounts that became known after the issuance of the reports.



#### **APPENDIX D – HISTORICAL DATA AND REQUIRED EXHIBITS**

In accordance with the Government Finance Officers Association (GFOA) and their recommended checklist for Annual Comprehensive Financial Reports, we prepared the following schedules for the Fund. The GFOA checklist uses the term Actuarial Accrued Liability, which is the same as the Actuarial Liability used elsewhere in this report.

	Table D-3           Schedule Retirees and Beneficiaries Added to and Removed from Rolls <sup>1</sup>										
Valuation Date July 1,		Annual		Annual		End of Year Annual Allowance	Average Annual Allowance	% Increase/ (Decrease) in Average Annual Allowance			
2024	0	\$ 0	1	\$ 19,047	18	\$ 281,433	\$ 15,635	(1.14%)			
2023	0	0	5	106,802	19	300,480	15,815	(6.81%)			
2022	0	0	9	216,861	24	407,282	16,970	(10.27%)			
2021	0	0	10	79,329	33	624,143	18,913	151.34%			
2020	0	0	9	63,449	43	323,589	7,525	1.10%			
2019	0	0	10	57,040	52	387,038	7,443	3.91%			
2018	0	0	15	96,452	62	444,078	7,163	2.04%			
2017	0	0	18	117,408	77	540,530	7,020	1.36%			
2016	0	0	29	164,935	95	657,938	6,926	4.37%			
2015	0	0	25	210,952	124	822,873	6,636	(4.35%)			

<sup>1</sup>Annual allowances do not include cost-of-living adjustments prior to July 1, 2021 valuation

Table D-4         Schedule of Funding Progress										
Valuation Date July 1,	A	ctuarial Value of Assets <sup>1</sup> (a)	Ace	Actuarial crued Liability <sup>2</sup> (b)		rplus)/Unfunded Actuarial ccrued Liability (c) = (b) - (a)	Funded Ratio (a) / (b)	Covered Payroll (d)		
2024	\$	2,134,405	\$	1,436,591	\$	(697,814)	148.57%	\$ 0	N/A	
2023		2,172,278		1,563,812		(608,466)	138.91%	0	N/A	
2022		2,748,796		1,916,246		(832,550)	143.45%	0	N/A	
2021		2,260,738		2,845,637		584,899	79.45%	0	N/A	
2020		1,295,217		1,369,932		74,715	94.55%	0	N/A	
2019		1,387,550		1,628,242		240,692	85.22%	0	N/A	
2018		2,313,665		2,186,581		(127,084)	105.81%	0	N/A	
2017		2,721,368		2,674,728		(46,640)	101.74%	0	N/A	
2016		3,017,928		3,336,743		318,815	90.45%	0	N/A	
2015		3,340,908		4,208,241		867,333	79.39%	0	N/A	

<sup>1</sup>Includes receivable amounts. Values from valuations prior to July 1, 2021 do not include assets associated with cost-of-living adjustments <sup>2</sup>Values from valuations prior to July 1, 2021 do not include liabilities associated with cost-of-living adjustments



#### **APPENDIX D – HISTORICAL DATA AND REQUIRED EXHIBITS**

	S	chedule of Funde	Table D-5 ed Liabilities by Typ	be (Solvency Test	)			
	Actuar	ial Accrued Liabi						
Valuation Date	Contributing & Non-Contributing Active Member Contributions	Retirees, Beneficiaries & Deferred Vesteds <sup>1</sup>	Contributing & Non-Contributing Active Member Benefits Financed by Employer	Actuarial Value	Portion of Actuarial Accru Liabilities Covered by Actuarial Value of Asset			
July 1,	(1)	(2)	(3)	of Assets <sup>2</sup>	(1)	(2)	(3)	
2024	\$ 0	\$ 1,436,591	\$ 0	\$ 2,134,405	N/A	100.00%	N/A	
2023	0	1,563,812	0	2,172,278	N/A	100.00%	N/A	
2022	0	1,916,246	0	2,748,796	N/A	100.00%	N/A	
2021	0	2,845,637	0	2,260,738	N/A	79.45%	N/A	
2020	0	1,369,932	0	1,295,217	N/A	94.55%	N/A	
2019	0	1,628,242	0	1,387,550	N/A	85.22%	N/A	
2018	0	2,186,581	0	2,313,665	N/A	100.00%	N/A	
2017	0	2,674,728	0	2,721,368	N/A	100.00%	N/A	
2016	0	3,336,743	0	3,017,928	N/A	90.45%	N/A	
2015	0	4,208,241	0	3,340,908	N/A	79.39%	N/A	

<sup>1</sup>Values from valuations prior to July 1, 2021 do not include liabilities associated with cost-of-living adjustments

<sup>2</sup>Includes receivable amounts. Values from valuations prior to July 1, 2021 do not include assets associated with cost-of-living adjustments

	Table D-6 Analysis of Financial Experience Change in Unfunded Actuarial Accrued Liability											
Valuation Date July 1,		ctuarial Value of Assets Investment (Gain)/Loss	2 ]	Actuarial Accrued Liability Sain)/Loss	A	ssumption & Method Changes	С	Plan Shanges	Co	ontributions <sup>1</sup>		Change in nfunded Actuarial Accrued Liability
2024	\$	(41,782)	\$	113,497	\$	0	\$	0	\$	(161,063)	\$	(89,348)
2023		(19,676)		(59,118)		0		0		302,878		224,084
2022		39,018		(474,624)		(33,532)		0		(948,311)		(1,417,449)
2021		40,512		(121,005)		667,664		0		(76,987)		510,184
2020		10,163		61,238		0		0		(237,378)		(165,977)
2019		113,583		(31,761)		289,436		0		(3,482)		367,776
2018		137,551		(63,930)		10,670		0		(164,735)		(80,444)
2017		164,069		(154,174)		0		0		(375,350)		(365,455)
2016		194,017		(264,949)		0		0		(477,586)		(548,518)
2015		228,240		(201,179)		348,589		0		9,641		385,291

<sup>1</sup>Change due to contributions (greater)/less than normal cost plus interest on the Unfunded Actuarial Accrued Liability



## **APPENDIX E – GLOSSARY OF TERMS**

#### 1. Actuarial Assumptions

Assumptions as to the occurrence of future events affecting pension costs, such as: mortality, withdrawal, disability, and retirement; changes in compensation; inflation; rates of investment earnings, and asset appreciation or depreciation; and other relevant items.

## 2. Actuarial Cost Method

A procedure for determining the Actuarial Present Value of pension plan benefits and expenses and for developing an allocation of such value to each year of service, usually in the form of a Normal Cost and an Actuarial Liability.

## 3. Actuarial Gain/(Loss)

A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions during the period between two Actuarial Valuation dates, as determined in accordance with a particular Actuarial Cost Method.

## 4. Actuarial Liability

The portion of the Actuarial Present Value of Projected Benefits which will not be paid by future Normal Costs. It represents the value of the past Normal Costs with interest to the valuation date.

#### 5. Actuarial Present Value (Present Value)

The value as of a given date of a future amount or series of payments. The Actuarial Present Value discounts the payments to the given date at the assumed investment return and includes the probability of the payment being made. As a simple example: assume you owe \$100 to a friend one year from now. Also, assume there is a 1% probability of your friend dying over the next year, in which case you won't be obligated to pay him. If the assumed investment return is 10%, the actuarial present value is:

Amount		Probability of		<u>1/(1+Investment Return)</u>		
		Payment <b>Payment</b>				
\$100	х	(101)	х	1/(1+.1)	=	\$90

#### 6. Actuarial Valuation

The determination, as of a specified date, of the Normal Cost, Actuarial Liability, Actuarial Value of Assets, and related Actuarial Present Values for a pension plan.

## 7. Actuarial Value of Assets

The value of cash, investments and other property belonging to a pension plan as used by the actuary for the purpose of an Actuarial Valuation. The purpose of an Actuarial Value of Assets is to smooth out fluctuations in market values. This way long-term costs are not distorted by short-term fluctuations in the market.



## **APPENDIX E – GLOSSARY OF TERMS**

## 8. Actuarially Equivalent

Of equal Actuarial Present Value, determined as of a given date with each value based on the same set of Actuarial Assumptions.

#### 9. Amortization Payment

The portion of the pension plan contribution which is designed to pay interest and principal on the Unfunded Actuarial Liability in order to pay for that liability in a given number of years.

## 10. Funded Ratio

The ratio of the Actuarial Value of Assets to the Actuarial Liabilities.

## **11. Investment Return Assumption**

The assumed interest rate used for projecting dollar related values in the future.

## 12. Mortality Table

A set of percentages which estimate the probability of death at a particular point in time. Typically, the rates are annual and based on age and sex.

#### 13. Normal Cost

That portion of the Actuarial Present Value of pension plan benefits and expenses, which is allocated to a valuation year by the Actuarial Cost Method.

#### 14. Projected Benefits

Those pension plan benefit amounts which are expected to be paid in the future under a particular set of Actuarial Assumptions, taking into account such items as the effect of advancement in age and increases in future compensation and service credits.

## 15. Projected Unit Credit Cost Method

A method under which the Actuarial Liability is calculated as the Actuarial Present Value of the Projected Benefits allocated to periods prior to the valuation year.

#### 16. Unfunded Actuarial Liability

The excess of the Actuarial Liability over the Actuarial Value of Assets.

